





Created: 3 weeks, 1 day after earthquake

Version 4

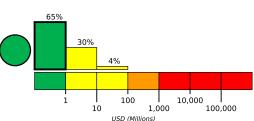
M 5.4, 56 km E of Marihatag, Philippines

Origin Time: 2023-12-03 21:43:38 UTC (Mon 05:43:38 local) Location: 8.7398° N 126.8062° E Depth: 24.2 km

Estimated Fatalities 10,000 1,000

and economic losses. There is a low likelihood of casualties and damage.

Green alert for shaking-related fatalities Estimated Economic Losses



Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	8,181k	659k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

127.2°E 126.1°E Cabadbaran Butuan Manay

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/us7000lfzh#pager

Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unknown/miscellaneous types and heavy wood frame construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1999-12-15	379	4.8	VI(34k)	1
1987-05-23	166	5.7	VII(70k)	1
1989-12-15	43	7.5	VIII(1k)	2

Selected City Exposure

from GeoNames.org				
MMI	City	Population		
IV	Marihatag	4k		
IV	Cagwait	<1k		
IV	Hinatuan	10k		
IV	Aras-asan	5k		
IV	Unidad	3k		
IV	Salvacion	2k		
Ш	Libertad	250k		
Ш	Butuan	310k		
Ш	Magugpo	233k		
Ш	Davao	1,213k		
Ш	Mati	106k		

bold cities appear on map.

(k = x1000)